

WHAT IS CLAIMED IS:

1. A battery unit for being contained in a lens-fitted photo film unit, comprising:

a battery including first and second battery
5 electrodes;

a battery case, formed from insulating material, for containing said battery;

first and second through holes formed in said battery case; and

10 first and second contact segments, inserted through respectively said first and second through holes in a watertight manner, for contacting respectively said first and second battery electrodes, for external connection of said battery.

15 2. A battery unit as defined in claim 1, wherein said battery is an AAA type, and said battery case substantially has a size of an AA type of battery.

3. A battery unit as defined in claim 1, wherein said battery case is constituted by an elastic member at least
20 partially;

said first and second contact segments are thrust through said elastic member in said watertight manner, so as to form said first and second through holes.

4. A battery unit as defined in claim 3, wherein each
25 of said first and second contact segments includes:

a plate portion for contacting said first or second battery electrode; and

a terminal pin, formed to protrude from said plate portion, for being thrust through said elastic member in said
30 watertight manner.

5. A battery unit as defined in claim 4, wherein said

battery is shaped cylindrically, and has first and second end faces and a cylindrical face;

said first battery electrode is disposed at said first end face, and said second battery electrode is disposed at
5 said second end face and said cylindrical face.

6. A battery unit as defined in claim 5, wherein said battery case includes a case body, having one end wall, and an end opening disposed opposite to said end wall, for containing said battery;

10 said elastic member is a cap for closing said end opening in said watertight manner.

7. A battery unit as defined in claim 6, wherein said plate portion of said second contact segment is curved, and has an inner face for contacting said cylindrical face of
15 said battery.

8. A battery unit as defined in claim 7, wherein said cap is formed from rubber or elastomer.

9. A battery unit as defined in claim 7, wherein said cap includes:
20 a projecting portion, formed to project from a cap outer face in a position of said terminal pin of said first or second contact segment; and

a receiving chamber, formed to retreat from a cap inner face in a position reverse to said projecting portion, for
25 receiving said terminal pin, to allow thrusting of said terminal pin through said projecting portion.

10. A battery unit as defined in claim 9, further comprising:

a positioning cutout formed in said plate portion of
30 said first contact segment; and

a positioning projection, formed to project from said

cap, for engagement with said positioning cutout to position said first contact segment.

11. A battery unit as defined in claim 10, further comprising:

5 a retention groove formed in one of said cap and said case body; and

a retention projection, formed to project from a remaining one of said cap and said case body, for engagement with said retention groove, to retain said cap on said case
10 body in said watertight manner.

12. A battery unit as defined in claim 1, further comprising a containing chamber, formed inside said cap, for containing at least one of neutralizing agent, hydrogenation catalyst and water absorbing agent.

13. A battery unit as defined in claim 1, further comprising neutralizing agent, accommodated in said battery case, for neutralizing alkali solution from said battery being damaged.
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14. A battery unit as defined in claim 1, further comprising hydrogenation catalyst, accommodated in said battery case, for causing hydrogen from said battery to react upon oxygen if said battery is damaged.
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15. A battery unit as defined in claim 14, further comprising water absorbing agent, accommodated in said battery case, for absorbing water produced according to said hydrogenation catalyst.
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16. A battery unit as defined in claim 1, further comprising a coloring member or coloring material layer, including coloring material, applied to or secured to an outer surface of said battery case, for developing color by
30 reaction upon alkali solution from said battery being

damaged, to indicate occurrence of a damage.

17. A battery unit as defined in claim 1, further comprising at least one biasing mechanism, disposed between said first contact segment and said first battery electrode, or between said second contact segment and said second battery electrode, for pushing said first or second contact segment to keep said first or second contact segment fitted tightly in said first or second through hole.

18. A battery unit as defined in claim 17, wherein said battery is shaped cylindrically, and said first and second battery electrodes are disposed at first and second end faces of said battery;

said battery case includes a case body and a cap, said case body having one end wall, and an end opening disposed opposite to said end wall, for containing said battery, said cap closing said end opening in said watertight manner;

said first and second through holes are formed in respectively said cap and said end wall.

19. A battery unit as defined in claim 18, further comprising first and second packing members for preventing water from entry between said first contact segment and said first through hole, and between said second contact segment and said second through hole.

20. A battery unit as defined in claim 19, wherein each of said first and second contact segments includes:

a plate portion disposed between an inner face of said cap or said end wall and said first or second battery electrodes; and

a terminal projection, formed to project from said plate portion, and inserted in said first or second through hole.

21. A battery unit as defined in claim 20, wherein said

first packing member is disposed between said plate portion of said first contact segment and said cap, and said second packing member is disposed between said plate portion of said second contact segment and said end wall.

5 22. A battery unit as defined in claim 21, wherein said at least one biasing mechanism includes a coil spring.

23. A battery unit as defined in claim 21, wherein said at least one biasing mechanism includes a plate spring.

24. A battery unit as defined in claim 21, wherein said
10 cap includes:

a disk-shaped cap body; and

a flange portion, formed to project from a periphery of said cap body toward said end wall, for being fitted on an outer surface of said case body about said end opening.

15 25. A battery unit as defined in claim 21, wherein said cap is inserted in said end opening to be fitted.

26. A battery unit for being contained in a lens-fitted photo film unit, comprising:

20 a battery including first and second battery electrodes;

a battery case, formed from insulating material, for containing said battery, said battery case being constituted by an elastic member at least partially; and

25 first and second contact segments, thrust through respectively said elastic member in a watertight manner, for contacting respectively said first and second battery electrodes, for external connection of said battery.

27. A battery unit as defined in claim 26, wherein each of said first and second contact segments includes:

30 a plate portion for contacting said first or second battery electrode; and

a terminal pin, formed to protrude from said plate portion, for being thrust through said elastic member in said watertight manner.

28. A battery unit for being contained in a lens-fitted
5 photo film unit, comprising:

a battery including first and second battery electrodes;

a battery case, formed from insulating material, for containing said battery;

10 first and second through holes formed in said battery case;

first and second contact segments, inserted through respectively said first and second through holes in a watertight manner, for contacting respectively said first and
15 second battery electrodes, for external connection of said battery; and

at least one biasing mechanism, disposed between said first contact segment and said first battery electrode, or between said second contact segment and said second battery
20 electrode, for pushing said first or second contact segment to keep said first or second contact segment fitted tightly in said first or second through hole.